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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,657	07/24/2003	Saburou Wakita	240732US3X	8903
22850 7:	590 08/23/2004		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			TRAN, LEN	
			ART UNIT	PAPER NUMBER
ADDAMIDICAL, VII 22311			1725	
			DATE MAILED: 08/23/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application/Control Number: 10/625,657

Art Unit: 1725

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DETAILED ACTION

Election/Restrictions

- 1. Applicant's election with traverse of group I, claims 1-4, in the reply filed on 7/14/04 is acknowledged. The traversal is on the ground(s) that the search and examination of the entire application would not place a serious burden on the Examiner. This is not found persuasive because inventions of group I, claims 1-4 and group II, claim 5 are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process.

 (MPEP § 806.05(e)). In this case the apparatus can be used to make plastic article.
- 2. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

The requirement is still deemed proper and is therefore made FINAL.

Abstract

3. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally <u>limited to a single paragraph</u> on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Gross et al (US 6,547,849).

As to claim 1, Gross et al disclose a casting apparatus comprising a die (17) having an opening section above the die so as to pour a molten metal therefrom (figure), a heater (38) disposed above the die (figure), a gas supplying section which supplies an inert gas to a surface of the molten metal (col.4, lines 47-48), a lid (32) which is disposed between the surface of the molten metal and the heater (38 (figure) and a lid moving structure (33) which moves the lid relatively to the die and capable of controlling opening amount of the opening section above the die (col. 4, lines 29-31).

As to claim 2, the moving structure is capable of adjusting an opening amount according to a flow amount of inert gas (figure), since lid is moveable.

As to claim 3, the lid moving structure has a structure for moving the lid vertically (col. 4, line 30).

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Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 8. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gross et al (US '849) as applied to claim 1 above, and further in view of Baum (US 4,140,170).

Gross et al disclose the claimed invention above and wherein in molten metal is silicon (abstract), but fail to teach the bottom surface of the lid is coated with silicide.

However, Baum discloses a mold coated with silicide (col. 9, lines 11-12) for oxidation resistance.

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Therefore, it would have been obvious to one of ordinary skill in the art at the time applicant's invention was made to provide a coating of silicide as taught by Baum, on Gross et al's lid in order to prevent oxidation.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Len Tran whose telephone number is (571) 272-1184. The examiner can normally be reached on M-F, 8:30 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Len Trank Examiner

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August 19, 2004